

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P455333

Luminaire Tested: **GALN-SA6C-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455333  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31231 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

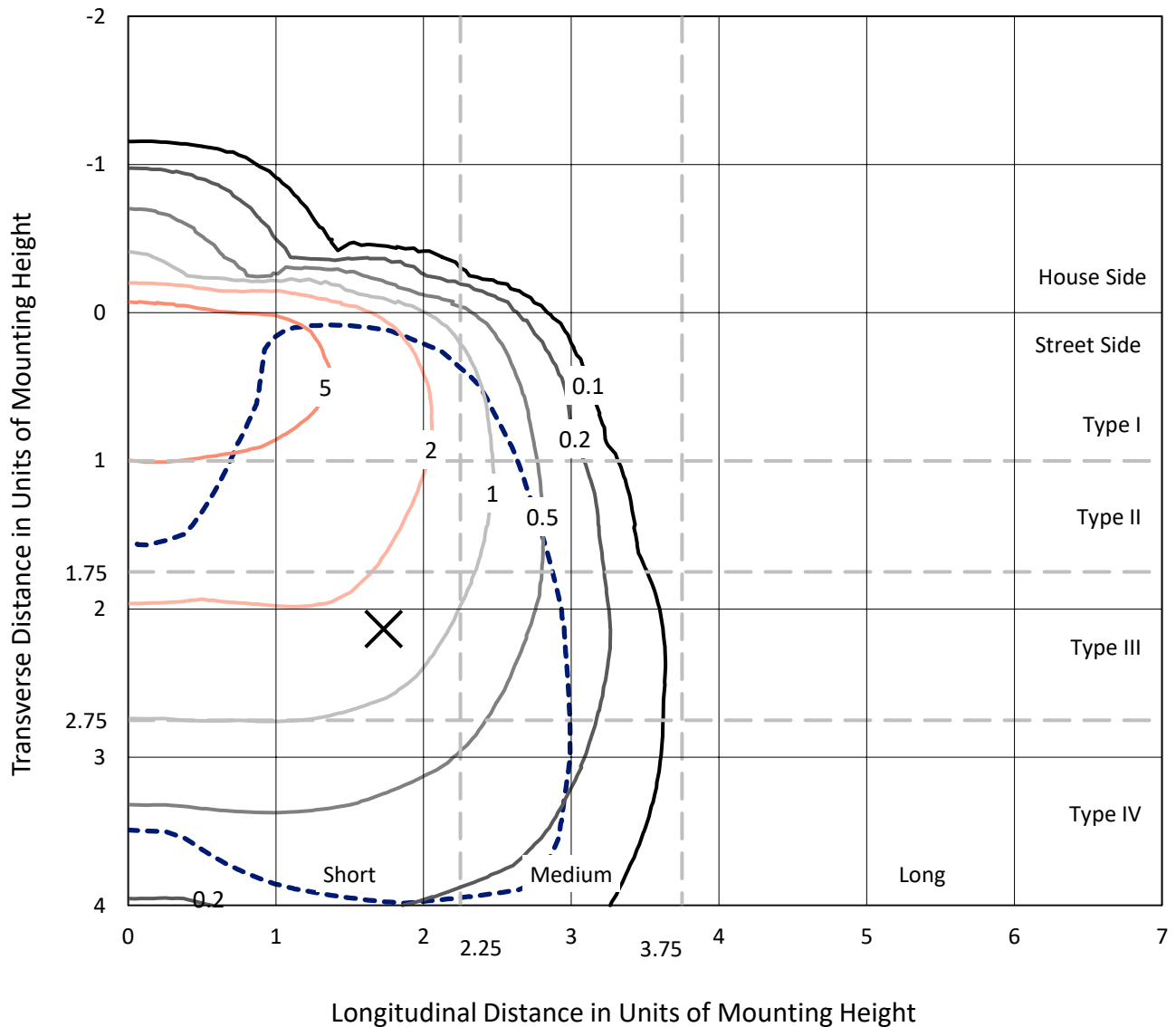
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

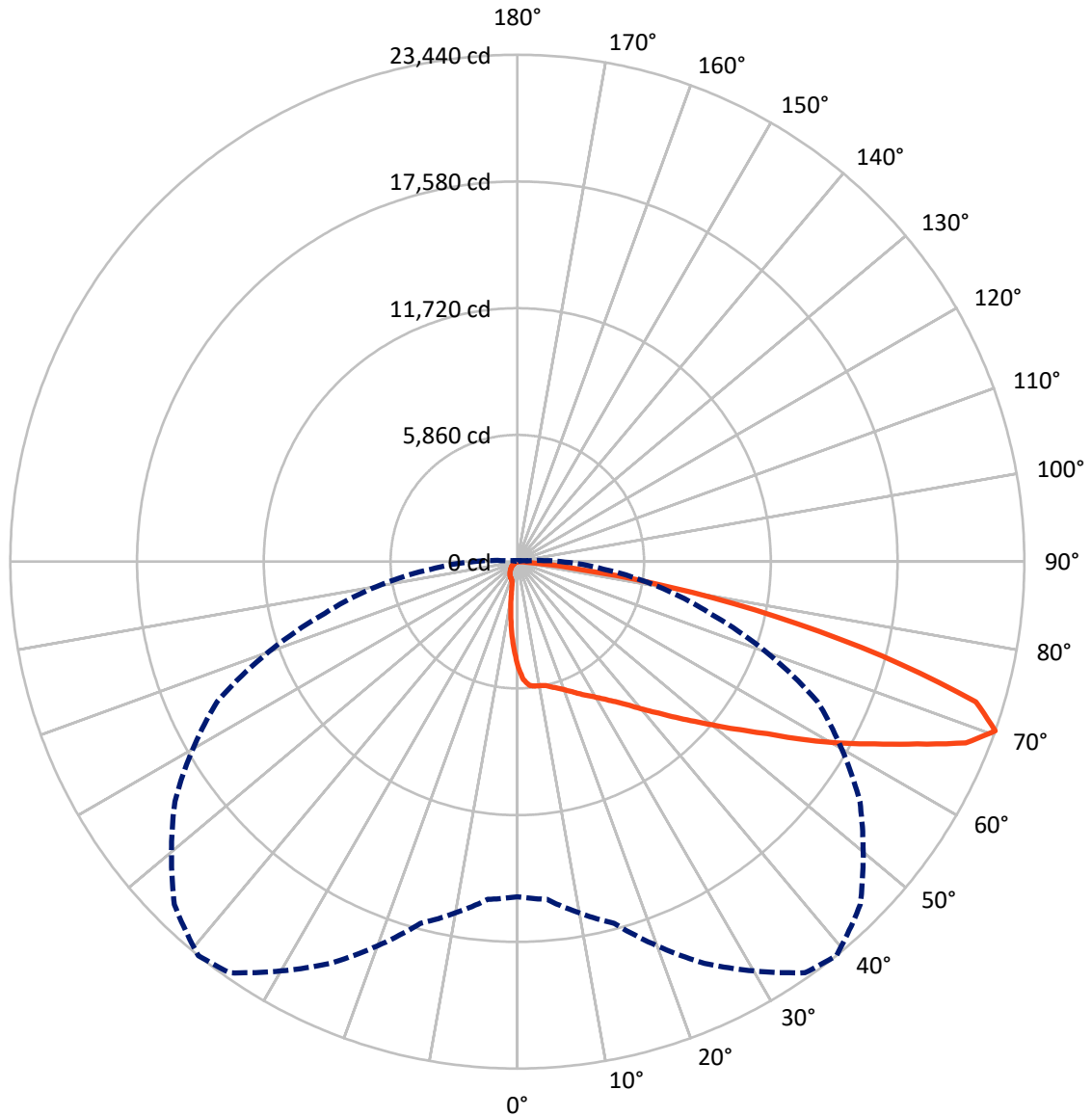
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2036.4	0.0	2036.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	29194.6	0.0	29194.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	31231.0	0.0	31231.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.6	1.3
10°-20°	1080.1	3.5
20°-30°	1809.5	5.8
30°-40°	2806.4	9.0
40°-50°	4447.2	14.2
50°-60°	6519.0	20.9
60°-70°	8355.7	26.8
70°-80°	5250.5	16.8
80°-90°	547.0	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31231.0	100.0
0°-180°	31231.0	100.0



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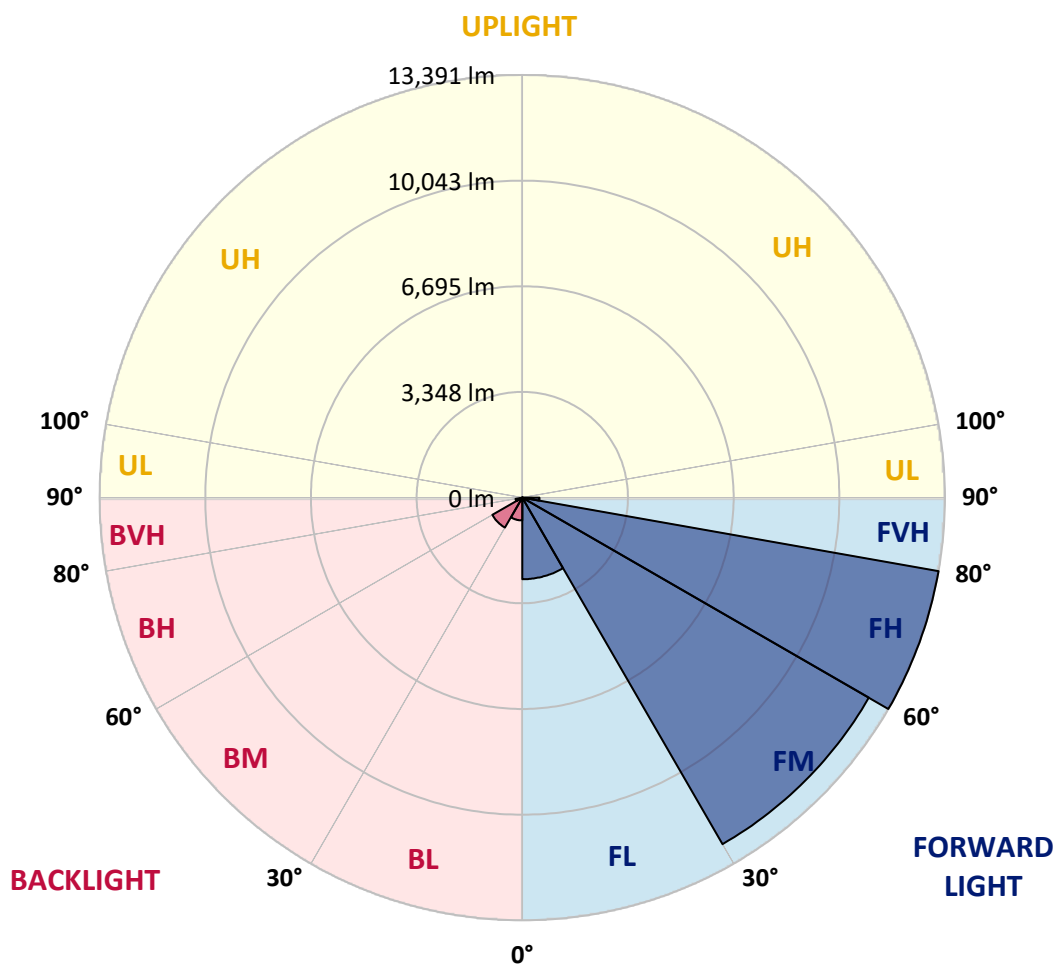
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.2	8.3			
FM (30°-60°)	12676.6	40.6			
FH (60°-80°)	13390.8	42.9			G5
FVH (80°-90°)	543.0	1.7			G4/750
BL (0°-30°)	721.1	2.3	B2/1000		
BM (30°-60°)	1095.9	3.5	B2/2500		
BH (60°-80°)	215.4	0.7	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1
2.5°	5630.7	5611.8	5586.7	5557.3	5473.3	5458.6	5408.3	5301.2	5173.2	5068.3	4923.5
5°	5897.3	5907.8	5888.9	5836.4	5775.5	5739.9	5676.9	5511.1	5345.3	5133.3	4896.2
7.5°	5958.1	5979.1	5956.0	5905.7	5846.9	5809.1	5758.7	5616.0	5423.0	5181.6	4856.3
10°	5951.8	5977.0	5962.3	5916.1	5867.9	5832.2	5777.6	5664.3	5509.0	5255.1	4868.9
12.5°	5941.3	5974.9	5972.8	5949.7	5909.8	5882.6	5849.0	5748.3	5603.4	5362.1	4938.2
15°	5911.9	5953.9	5991.7	6010.6	6012.7	6012.7	5970.7	5863.7	5725.2	5502.7	5028.4
17.5°	5924.5	5972.8	6067.2	6121.8	6159.6	6155.4	6111.3	5995.9	5842.7	5647.5	5122.8
20°	6002.2	6067.2	6199.5	6308.6	6346.4	6333.8	6275.0	6140.7	5966.5	5771.3	5215.2
22.5°	6193.2	6251.9	6417.7	6545.7	6573.0	6539.4	6455.5	6272.9	6115.5	5905.7	5326.4
25°	6478.6	6547.8	6701.0	6797.6	6797.6	6778.7	6661.2	6447.1	6283.4	6092.4	5471.2
27.5°	6824.9	6883.6	7034.7	7120.8	7070.4	7015.8	6898.3	6640.2	6482.8	6327.5	5645.4
30°	7175.3	7213.1	7372.6	7410.4	7357.9	7288.7	7162.8	6904.6	6766.1	6646.5	5897.3
32.5°	7506.9	7588.8	7721.0	7712.6	7641.3	7607.7	7492.2	7217.3	7139.7	7127.1	6249.8
35°	7838.5	7901.5	8019.0	8048.4	7985.4	7979.1	7895.2	7691.6	7693.7	7775.6	6799.7
37.5°	8123.9	8180.6	8319.1	8384.2	8396.8	8428.3	8394.7	8260.4	8451.3	8675.9	7527.9
40°	8363.2	8442.9	8619.2	8732.6	8862.7	8978.1	8984.4	9013.8	9397.8	9784.0	8478.6
42.5°	8550.0	8661.2	8917.2	9127.1	9425.1	9572.0	9689.6	9851.1	10497.5	11074.7	9599.3
45°	8793.4	8921.4	9240.4	9569.9	10035.8	10277.2	10440.9	10873.2	11790.3	12577.3	10749.4
47.5°	9196.4	9263.5	9588.8	10069.4	10682.2	11026.4	11345.4	12000.2	13177.5	13882.7	11706.4
50°	9714.7	9758.8	10004.4	10671.7	11465.0	11918.3	12499.7	13269.9	14617.2	14965.6	12247.8
52.5°	10287.7	10302.4	10487.0	11334.9	12342.3	12913.1	13563.7	14514.4	15790.4	15737.9	12606.7
55°	10952.9	10932.0	11089.4	12054.7	13381.1	14033.8	14791.4	15788.3	16808.2	16285.7	12812.4
57.5°	11714.8	11658.1	11811.3	13009.6	14711.7	15492.4	16262.6	16888.0	17597.3	16745.3	12911.0
60°	12512.3	12398.9	12581.5	14082.1	16279.4	17020.2	17660.3	17828.2	18428.4	17110.4	12741.0
62.5°	13148.2	13150.3	13490.2	15223.7	17891.1	18539.6	18879.6	19030.7	19144.1	17030.7	11847.0
65°	14140.8	14174.4	14718.0	16808.2	19756.9	20319.3	20552.3	20061.2	19175.5	16040.1	10503.8
67.5°	15165.0	15272.0	16266.8	18990.8	21912.2	22365.5	22065.4	20260.5	18319.3	13779.9	7964.4
70°	15498.7	15675.0	17314.0	20493.5	23205.0	23440.0	22424.3	19330.8	15314.0	9213.2	4008.5
72.5°	14201.7	14487.1	16711.7	19945.7	22380.2	22176.6	20063.3	16212.2	9735.7	3498.5	1223.5
75°	10014.8	10140.8	13889.0	16545.9	18000.3	17423.1	15261.5	10451.4	4004.3	982.2	419.7
77.5°	5171.1	5110.3	8260.4	10978.1	12837.6	12239.4	9993.9	5410.4	1517.3	409.2	260.2
80°	2673.7	2717.8	3574.0	5752.4	7836.4	7211.0	5328.5	2507.9	808.0	226.7	199.4
82.5°	1498.4	1406.1	2054.6	2512.1	3664.3	2873.1	2044.1	1775.5	352.6	136.4	188.9
85°	272.8	285.4	1127.0	1357.8	1271.8	808.0	659.0	1185.7	102.8	75.6	132.2
87.5°	4.2	4.2	218.3	390.4	247.6	113.3	207.8	170.0	21.0	29.4	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1	4873.1
2.5°	4850.0	4770.3	4621.3	4474.4	4287.6	4134.4	4031.5	3924.5	3815.4	3823.8	3849.0
5°	4766.1	4627.6	4333.7	4023.1	3725.1	3456.5	3192.1	2954.9	2858.4	2770.2	2774.4
7.5°	4682.1	4487.0	4056.7	3569.8	3118.6	2661.1	2329.5	2056.7	1911.9	1802.8	1771.3
10°	4644.4	4386.2	3802.8	3133.3	2493.2	1993.7	1567.7	1345.2	1173.2	1118.6	1133.3
12.5°	4661.1	4335.8	3574.0	2738.8	1976.9	1389.3	1091.3	978.0	940.2	933.9	929.7
15°	4692.6	4300.2	3349.5	2302.2	1452.3	1032.5	917.1	896.1	891.9	887.7	889.8
17.5°	4734.6	4268.7	3110.2	1893.0	1114.4	902.4	868.8	858.4	856.3	856.3	856.3
20°	4776.6	4233.0	2843.7	1527.8	929.7	852.1	831.1	824.8	822.7	822.7	820.6
22.5°	4824.8	4201.5	2573.0	1200.4	856.3	816.4	797.5	793.3	791.2	789.1	789.1
25°	4894.1	4161.7	2285.4	982.2	810.1	782.8	763.9	759.7	757.6	749.2	751.3
27.5°	4986.4	4132.3	1989.5	847.9	768.1	740.8	728.2	721.9	717.7	711.4	713.5
30°	5112.4	4107.1	1674.7	774.4	719.8	696.8	684.2	680.0	675.8	669.5	669.5
32.5°	5330.6	4117.6	1343.1	715.6	675.8	648.5	635.9	631.7	627.5	621.2	621.2
35°	5658.0	4178.4	1074.5	665.3	623.3	596.0	583.4	583.4	577.1	568.7	566.6
37.5°	6193.2	4333.7	862.6	617.0	572.9	547.8	533.1	528.9	522.6	510.0	507.9
40°	6824.9	4575.1	726.1	568.7	526.8	501.6	489.0	476.4	459.6	447.0	444.9
42.5°	7618.2	4822.7	629.6	520.5	482.7	459.6	444.9	423.9	398.7	382.0	379.9
45°	8445.0	5049.4	564.5	476.4	440.7	421.8	405.0	371.5	340.0	319.0	316.9
47.5°	9062.0	5091.4	512.1	434.4	405.0	386.2	363.1	321.1	279.1	260.2	253.9
50°	9353.8	4887.8	457.5	392.5	369.4	348.4	319.0	270.7	224.6	201.5	197.3
52.5°	9456.6	4535.2	413.4	354.7	333.7	308.5	272.8	218.3	176.3	153.2	151.1
55°	9414.6	4090.3	373.6	319.0	291.7	262.3	226.7	174.2	130.1	111.2	107.0
57.5°	9194.3	3523.7	333.7	283.3	249.7	220.4	180.5	130.1	88.1	71.4	69.3
60°	8600.3	2751.4	293.8	243.4	212.0	180.5	142.7	92.3	54.6	39.9	39.9
62.5°	7597.2	2042.0	256.0	203.6	178.4	144.8	100.7	58.8	29.4	21.0	18.9
65°	6348.5	1506.8	214.1	172.1	149.0	113.3	71.4	35.7	14.7	6.3	4.2
67.5°	4430.3	929.7	178.4	140.6	121.7	81.8	44.1	14.7	6.3	0.0	0.0
70°	2012.6	442.8	136.4	107.0	92.3	58.8	23.1	8.4	4.2	0.0	0.0
72.5°	625.4	233.0	96.5	77.7	63.0	37.8	12.6	6.3	4.2	0.0	0.0
75°	289.6	149.0	60.9	42.0	35.7	18.9	8.4	4.2	2.1	0.0	0.0
77.5°	216.2	115.4	35.7	23.1	18.9	12.6	6.3	4.2	2.1	0.0	0.0
80°	188.9	58.8	21.0	14.7	10.5	8.4	4.2	2.1	0.0	0.0	0.0
82.5°	170.0	29.4	12.6	8.4	6.3	4.2	2.1	2.1	0.0	0.0	0.0
85°	92.3	16.8	8.4	6.3	4.2	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	16.8	8.4	6.3	4.2	4.2	2.1	2.1	2.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)